



SEQUENCE LISTING

<110> GUEGGER, Karl et al

ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF

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<141> 2000-12-07

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 Leu Gln Thr Leu Arg Ala Leu Ser Glu Val Gln Lys Met Thr Pro Arg
 145 150 155 160
 Glu Arg Met Arg Leu Arg Lys Leu Gln Ala Ala Asp Glu Lys Ala Arg
 165 170 175
 Lys Leu Lys Lys Ile Val Glu Glu Lys Tyr Glu Glu Asn Ser Lys Arg
 180 185 190
 Met Gln Glu Leu Arg Ser Arg Asn Phe Gln Gln Leu Ser Val Asp Val
 195 200 205
 Leu His Glu Lys Thr His Leu Lys Gly Met Glu Glu Lys Glu Glu Gln
 210 215 220

Pro Glu Gly Arg Leu Ser Cys Ser Pro Gln Asp Glu Asp Glu Glu Arg
 225 230 235 240
 Trp Gln Gly Arg Glu Glu Glu Ser Asp Glu Pro Thr Leu Glu Asn Leu
 245 250 255
 Pro Glu Ser Gln Pro Ile Pro Ser Met Asp Leu His Glu Leu Glu Ser
 260 265 270
 Ile Val Glu Asp Ala Thr Ser Asp Leu Gly Tyr His Glu Ile Pro Glu
 275 280 285
 Asp Pro Leu Val Ala Glu Glu Tyr Tyr Ala Asp Ala Phe Asp Ser Tyr
 290 295 300
 Cys Val Glu Ser Asp Glu Glu Glu Glu Glu Ile Ala Leu Glu Arg Pro
 305 310 315 320
 Glu Lys Glu Ile Arg Asn Glu Gly Ser Gln Pro Ala Tyr Arg Thr Asn
 325 330 335
 Gln Gln Asp Ser Asp Ile Glu Ala Leu Ala Arg Cys Leu Glu Asn Val
 340 345 350
 Leu Gly Cys Thr Ser Leu Asp Thr Lys Thr Ile Thr Thr Met Ala Glu
 355 360 365
 Asp Met Ser Pro Gly Pro Pro Ile Phe Asn Ser Val Met Ala Arg Thr
 370 375 380
 Lys Met Lys Arg Met Arg Glu Ser Ala Met Gln Lys Leu Gly Thr Glu
 385 390 395 400
 Val Phe Glu Glu Val Tyr Asn Tyr Leu Lys Arg Ala Arg His Gln Asn
 405 410 415
 Ala Ser Glu Ala Glu Ile Arg Glu Cys Leu Glu Lys Val Val Pro Gln
 420 425 430
 Ala Ser Asp Cys Phe Glu Val Asp Gln Leu Leu Tyr Phe Glu Glu Gln
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 Leu Leu Ile Thr Met Gly Lys Glu Pro Thr Leu Gln Asn His Leu
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 <212> PRT
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<400> 5
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 Leu Val Lys His Arg Arg Asp Gly Lys Gln Tyr Val Ile Lys Lys Leu
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 Asn Leu Arg Asn Ala Ser Ser Arg Glu Arg Arg Ala Ala Glu Gln Glu
 35 40 45
 Ala Gln Leu Leu Ser Gln Leu Lys His Pro Asn Ile Val Thr Tyr Lys
 50 55 60
 Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr Ile Val Met Gly Phe
 65 70 75 80
 Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln
 85 90 95
 Leu Leu Pro Glu Asn Gln Val Val Glu Trp Phe Val Gln Ile Ala Met
 100 105 110
 Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys
 115 120 125
 Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp
 130 135 140
 Leu Gly Ile Ala Arg Val Leu Glu Asn His Cys Asp Met Ala Ser Thr

145 150 155 160
 Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser Asn Lys
 165 170 175
 Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys Cys Val Tyr
 180 185 190
 Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys Asp Met Asn Ser
 195 200 205
 Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro Ala Met Pro Arg Asp
 210 215 220
 Tyr Ser Pro Glu Leu Ala Glu Leu Ile Arg Thr Met Leu Ser Lys Arg
 225 230 235 240
 Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu Arg Gln Pro Tyr Ile
 245 250 255
 Lys Arg Gln Ile
 260

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 <212> PRT
 <213> Mus musculus

<400> 6
 Tyr Cys Tyr Met Arg Val Val Gly Arg Gly Ser Tyr Gly Glu Val Thr
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 Leu Val Lys His Arg Arg Asp Gly Lys Gln Tyr Val Ile Lys Lys Leu
 20 25 30
 Asn Leu Arg Asn Ala Ser Ser Arg Glu Arg Arg Ala Ala Glu Gln Glu
 35 40 45
 Ala Gln Leu Leu Ser Gln Leu Lys His Pro Asn Ile Val Thr Tyr Lys
 50 55 60
 Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr Ile Val Met Gly Phe
 65 70 75 80
 Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln
 85 90 95
 Leu Leu Pro Glu Ser Gln Val Val Glu Trp Phe Val Gln Ile Ala Met
 100 105 110
 Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys
 115 120 125
 Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp
 130 135 140
 Leu Gly Ile Ala Arg Val Leu Glu Asn His Gly Asp Met Ala Ser Thr
 145 150 155 160
 Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser Asn Lys
 165 170 175
 Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys Cys Val Tyr
 180 185 190
 Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys Asp Met Asn Ser
 195 200 205
 Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro Pro Met Pro Lys Val
 210 215 220
 Tyr Ser Thr Glu Leu Ala Glu Leu Ile Arg Thr Met Leu Ser Arg Arg
 225 230 235 240
 Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu Arg Gln Pro Tyr Ile
 245 250 255
 Lys His His Ile Ser Leu Phe Leu Glu Ala Thr Lys Ala Lys Thr Ser
 260 265 270

Lys Asn Asn Val Lys Asn Cys Asp Ser Arg Ala Lys Pro Val Ala Ala
 275 280 285
 Val Val Ser Arg Lys Glu Glu Ser Asn Thr Asp Val Ile His Tyr Gln
 290 295 300
 Pro Arg Ser Ser Glu Gly Ser Ala Leu His Val Met Gly Glu Asp Lys
 305 310 315 320
 Cys Leu Ser Gln Glu Lys Pro Val Asp Ile Gly Pro Leu Arg Ser Pro
 325 330 335
 Ala Ser Leu Glu Gly His Thr Gly Lys Gln Asp Met Asn Asn Thr Gly
 340 345 350
 Glu Ser Cys Ala Thr Ile Ser Arg Ile Asn Ile Asp Ile Leu Pro Ala
 355 360 365
 Glu Arg Arg Asp Ser Ala Asn Ala Gly Val Val Gln Glu Ser Gln Pro
 370 375 380
 Gln His Val Asp Ala Ala Asp Glu Val Asp Ser Gln Cys Ser Ile Ser
 385 390 395 400
 Gln Glu Lys Glu Arg Leu Gln Gly Asn Thr Lys Ser Ser Asp Gln Pro
 405 410 415